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<input type="checkbox"/>	L110	CHALECKI-JASON-P.in.	0
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<input type="checkbox"/>	L106	YIU-KELVIN-S.in.	6
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<input type="checkbox"/>	L103	L102 and (XML near (file or files or folder or folders))	4
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<input type="checkbox"/>	L87	L64 and copy\$	2
<input type="checkbox"/>	L86	L64 and sav\$	2
<input type="checkbox"/>	L85	L64 and (install\$ or transfer\$)	4
<input type="checkbox"/>	L84	L64 and (folder or folders or files or file)	4
<input type="checkbox"/>	L83	L64 and download\$	0

10/1723 862

┐	L82	L68 and L80	2
┐	L81	L67 and L80	1
┐	L80	edit\$ near (data adj file)	420
┐	L79	L78 and internet same sav\$ same (data adj file)	0
┐	L78	L77 and @ad<=20030324	172
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┐	L65	(XML near (file or files or folder or folders)).ti.	158
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┐	L63	L58 and @ad<=20030324	172
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┐	L59	L58 and @ad<=20030324	172
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		<i>DB=USPT; PLUR=NO; OP=OR</i>	
┐	L57	(L54 or L55) and ((file or files or folder or folders) near (offline or (off adj1 line) or off-line))	32
┐	L56	(L54 or L55) and ((file or files or folder or folders) near solution\$)	10
┐	L55	(707/100  707/101  707/102  707/103R  707/103Y  707/103X  707/103Z  707/104.1).cccls.	9953
┐	L54	(707/1  707/2).cccls.	4578
		<i>DB=TDBD; PLUR=NO; OP=OR</i>	
┐	L53	((file or files or folder or folders) near solution\$)	6
		<i>DB=JPAB; PLUR=NO; OP=OR</i>	
┐	L52	((file or files or folder or folders) near solution\$)	722
		<i>DB=EPAB; PLUR=NO; OP=OR</i>	
┐	L51	((file or files or folder or folders) near solution\$)	2
		<i>DB=EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR</i>	

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┐	L45 ((file or files or folder or folders) near (offline or (off adj1 line) or off-line))	298
	<i>DB=EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR</i>	
┐	L44 ((file or files or folder or folders) near (offline or (off adj1 line) or off-line))	45
	<i>DB=USPT; PLUR=NO; OP=OR</i>	
┐	L43 ((file or files or folder or folders) near (solution or solutions))	112
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┐	L40 (L2 or L3) and ((download\$ or upload\$ or transfer\$ or distribut\$) same (file or files or folder or folder\$) same (offline or (off adj1 line) or offline) same (online or (on adj1 line) or online))	1
┐	L39 (L2 or L3) and ((download\$ or upload\$ or transfer\$ or distribut\$) with (file or files or folder or folder\$) with (offline or (off adj1 line) or offline) with (online or (on adj1 line) or online))	0
┐	L38 (L2 or L3) and ((download\$ or upload\$ or transfer\$ or distribut\$) near (file or files or folder or folder\$) near (offline or (off adj1 line) or offline) near (online or (on adj1 line) or online))	0
┐	L37 L36 and (off-line or (off adj1 line) or offline or (on adj1 line) or online or on-line)	0
┐	L36 (6848078 6658417 6549922 6192367).pn.	4
┐	L35 (L26 or L27) and (offline or (off adj1 line))	30
┐	L34 (L26 or L27) and ((edit\$ or chang\$ or modif\$) near (file or files or folder or folders))	101
┐	L33 (L28 or L29) and (open\$ with (file or files or folder or folders))	1
┐	L32 (L28 or L29) and (open\$ near (file or files or folder or folders))	1
┐	L31 L30 and (file or files or folder or folders)	92
┐	L30 (offline or (off adj1 line)).ti.	266
┐	L29 (L2 or L3) and (offline or (off adj1 line)).ti.	0
┐	L28 (L2 or L3) and (offline or (off adj1 line)).ab.	5
┐	L27 (L2 or L3) and (file or files or folder or folders).ab.	289
┐	L26 (L2 or L3) and (file or files or folder or folders).ti.	114
┐	L25 (L2 or L3) and ((file or files or folder or folders) with offline)	5
┐	L24 L23 and ((menu\$ or icon\$ or button\$ or window\$) near (file\$ or folder\$))	17
┐	L23 L22 and (open\$ with (file\$ or folder\$))	73
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┐	L21 (6369840 6421070 6476833 6493702 6560640 6631357 6678717).pn.	7
┐	L20 (L18 or L19) and (offline or (off adj1 line))	30
┐	L19 (L2 or L3) and (file\$ or folder\$).ab.	294
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┐	L16 ((offline or (off adj1 line)) with (file\$ or folder\$))	1400
┐	L15 (L2 or L3) and (off adj1 line).ab.	5
┐	L14 (L2 or L3) and (off adj1 line).ti.	0
┐	L13 L12 and (file\$ or folder\$)	30
┐	L12 (offline same memor\$).ab.	42
┐	L11 (offline same memor\$).ti.	0
┐	L10 (offline adj1 memor\$).ti.	0
┐	L9 (offline adj1 memor\$).ab.	0
┐	L8 (offline near memor\$).ab.	0
┐	L7 (offline near memor\$).ti.	0
┐	L6 (L2 or L3) and (offline adj1 memor\$)	0
┐	L5 (L2 or L3) and (offline same memor\$)	5
┐	L4 (L2 or L3) and ((file\$ or folder\$) with (offline near memor\$))	0

┐	L3 (L2).pn. (5572499 5572596 5572648 5574722 5590087 5600840 5600836 5602973 5604894 5604889 5613160 5636360 5638508 5642503 RE35562 5650935 5671415 5684797 5692128 5701498 5721929 5721956 5737743 5740367 5751836 5752269 5761407 5761494 5768623 5778225 5787441 5799184 5802382 5806067 5806005 5809224 5812868 5812849 5822406 5831875 5835909 5838614 5844822 5845313 5848232 5852824 5870581 5870316 5878422 5881269).pn. (5884303 5889989 5892681 5907856 5911074 5913227 5917485 5920570 5924113 5923897 5930815 5933609 5933825 5936643 5953534 5956481 5960205 5964872 5974427 5974443 5977891 5987247 5987513 5991696 5991544 5999732 5999370 6003036 6003084 6009502 6009263 6023578 6029190 6049860 6057800 6058141 6058489 6061478 6061478 6065008 6065004 6064659 6073131 6076111 6079044 6092179 6092168 6098128 6112250 6110226).pn. (6115785 6115716 6122642 6128695 6138124 6145051 6144609 6151632 6167136 6167557 6172981 6178428 RE37031 6183933 6184592 6185623 6192488 6202068 6202210 6219296 6219647 6219726 6223308 6219296 6219647 6219726 6223308 6230234 6233579 6237114 6253200 6292830 6321207 6321317 6330558 6353483 6362895 6366931 6366988 6374227 6381032 6381324 6392758 6393513 6395889 6396422 6396593 6398334 6429947 6436703).pn. (6464322 6516051 6526406 6791707 6865672 6912618 6925481 6681344 6766328 6817008 6826568 6249794 6012984 6094649 6163811 6223190 6223190 6301614 6327608 6336137 6351776 6356920 6393456 6397219 6397232 6426798 6446113 6453329 6460042 6463440 6466940 6505086 6529899 6529905 6532473 6535884 6542911 6549922 6557043 6571201 6571292 6578069 6587855 6589291 6590589 6598219 6601071 6606596 6611843 6613098).pn. (6625596 6631379 6631519 6635088 6635089 6647388 6647410	293
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(5929858 5627996 5390313 5454101 5560007 5666528 5787283 5907137  
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5418524 5422993 5465328 5485595 5511002 5521630 5539879 5548751  
5563592 5566032)

┌ L2 1466

(6774926 6772139 6751777 6748385 6477544 6434564 6389434 6122647  
5991710 5806079 6581061 6343302 6563514).pn.

┌ L1 13

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text **file** (**xml** in our case) is a convenient **solution**, while for ... identical way to the in-**memory** representation. However, this ...

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- 1 [Research sessions: Research 3: XML processing: A linear time algorithm for optimal tree sibling partitioning and approximation algorithms in Natix](#)

Carl-Christian Kanne, Guido Moerkotte

September 2006 **Proceedings of the 32nd international conference on Very large data bases VLDB '06****Publisher:** VLDB EndowmentFull text available: [pdf\(596.42 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Document insertion into a native XML Data Store (XDS) requires to partition the document tree into a number of storage units with limited capacity, such as records on disk pages. As intra partition navigation is much faster than navigation between partitions, minimizing the number of partitions has a beneficial effect on query performance. We present a linear time algorithm to optimally partition an ordered, labeled, weighted tree such that each partition does not exceed a fixed weight limit. Whe ...

- 2 [WHAT: an XSLT-based infrastructure for the integration of natural language processing components](#)

Ulrich Schäfer

May 2003 **Proceedings of the HLT-NAACL 2003 workshop on Software engineering and architecture of language technology systems - Volume 8 SEALTS '03****Publisher:** Association for Computational LinguisticsFull text available: [pdf\(158.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The idea of the Whiteboard project is to integrate deep and shallow natural language processing components in order to benefit from their synergy. The project came up with the first fully integrated hybrid system consisting of a fast HPSG parser that utilizes tokenization, PoS, morphology, lexical, named entity, phrase chunk and (for German) topological sentence field analyses from shallow components. This integration increases robustness, directs the search space and hence reduces processing ti ...

- 3 [Algorithms and programming models for efficient representation of XML for Internet applications](#)



Neel Sundaresan, Reshad Moussa

April 2001 **Proceedings of the 10th international conference on World Wide Web WWW '01****Publisher:** ACM PressFull text available: [pdf\(352.97 KB\)](#) Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

10/1723 862



**Keywords:** DOM, SAX, WBXML, XML, compression

4 An analysis of XML database solutions for the management of MPEG-7 media descriptions



Utz Westermann, Wolfgang Klas

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

**Publisher:** ACM Press

Full text available: pdf(448.76 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

MPEG-7 constitutes a promising standard for the description of multimedia content. It can be expected that a lot of applications based on MPEG-7 media descriptions will be set up in the near future. Therefore, means for the adequate management of large amounts of MPEG-7-compliant media descriptions are certainly desirable. Essentially, MPEG-7 media descriptions are XML documents following media description schemes defined with a variant of XML Schema. Thus, it is reasonable to investigate current ...

**Keywords:** MPEG-7, XML database systems, multimedia databases

5 Fast online pointer analysis



Martin Hirzel, Daniel Von Dincklage, Amer Diwan, Michael Hind

April 2007 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 29 Issue 2

**Publisher:** ACM Press

Full text available: pdf(430.96 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Pointer analysis benefits many useful clients, such as compiler optimizations and bug finding tools. Unfortunately, common programming language features such as dynamic loading, reflection, and foreign language interfaces, make pointer analysis difficult. This article describes how to deal with these features by performing pointer analysis online during program execution. For example, dynamic loading may load code that is not available for analysis before the program starts. Only an online an ...

**Keywords:** Pointer analysis, class loading, native interface, reflection

6 Optimizing the lazy DFA approach for XML stream processing

Danny Chen, Raymond K. Wong











January 2004 **Proceedings of the 15th Australasian database conference - Volume 27 ADC '04**

**Publisher:** Australian Computer Society, Inc.

Full text available: pdf(190.92 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Lazy DFA (Deterministic Finite Automata) approach has been recently proposed to for efficient XML stream data processing. This paper discusses the drawbacks of the approach, suggests several optimizations as solutions, and presents a detailed analysis for the processing model. The experiments show that our proposed approach is indeed effective and scalable.

**Keywords:** XML, XPath, lazy DFA, stream data

- 7 Poster 2: applications track: Implementation of a mobile MPEG-21 peer   
 Shane Lauf, Ian Burnett  
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**  
**Publisher:** ACM Press  
Full text available:  [pdf\(91.15 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)  
The MPEG-21 Multimedia Framework aims to realize interoperable access to content across heterogeneous networks and devices. Within the Framework, the concept of Digital Items is introduced as a structured digital representation for multimedia. To demonstrate the applicability of MPEG-21 to seamless multimedia interactions on limited platforms, the authors have produced an implementation of MPEG-21 for a mobile device, in Java 2 Micro Edition (J2ME). This paper examines the design and implementat ...  
**Keywords:** MPEG-21, mobile applications, multimedia
- 8 Industrial session: XML support in relational system: CXHist: an on-line classification-based histogram for XML string selectivity estimation   
Lipyeow Lim, Min Wang, Jeffrey Scott Vitter  
August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**  
**Publisher:** VLDB Endowment  
Full text available:  [pdf\(283.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
Query optimization in IBM's System RX, the first truly relational-XML hybrid data management system, requires accurate selectivity estimation of path-value pairs, i.e., the number of nodes in the XML tree reachable by a given path with the given text value. Previous techniques have been inadequate, because they have focused mainly on the tag-labeled paths (tree structure) of the XML data. For most real XML data, the number of distinct string values at the leaf nodes is orders of magnitude larger ...
- 9 NSF workshop on industrial/academic cooperation in database systems   
 Mike Carey, Len Seligman  
March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1  
**Publisher:** ACM Press  
Full text available:  [pdf\(1.96 MB\)](#) Additional Information: [full citation](#), [index terms](#)
- 10 Removing the memory limitations of sensor networks with flash-based virtual memory   
Andreas Lachenmann, Pedro José Marrón, Matthias Gauger, Daniel Minder, Olga Saukh, Kurt Rothermel  
March 2007 **ACM SIGOPS Operating Systems Review , Proceedings of the ACM SIGOPS/EuroSys European Conference on Computer Systems 2007 EuroSys '07**, Volume 41 Issue 3  
**Publisher:** ACM  
Full text available:  [pdf\(598.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)  
Virtual memory has been successfully used in different domains to extend the amount of memory available to applications. We have adapted this mechanism to sensor networks, where, traditionally, RAM is a severely constrained resource. In this paper we show that the overhead of virtual memory can be significantly reduced with compile-time optimizations to make it usable in practice, even with the resource limitations present in sensor networks.

Our approach, *ViMem*, creates an effi ...

**Keywords:** flash memory, memory layout, virtual memory, wireless sensor networks

11 Mobile devices: m-LOMA - a mobile 3D city map



Antti Nurminen

April 2006 **Proceedings of the eleventh international conference on 3D web technology Web3D '06**

**Publisher:** ACM Press

Full text available: [pdf\(458.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

*m-LOMA*, mobile LOfcation-Aware Messaging Application, is designed to be a mobile portal to location-based information in cities. The user can perform textual searches to location-based content, navigate using 2D maps assisted by a GPS, and leave messages to the environment, or recognize the environment from a 3D map. The 3D map view is the key feature of the m-LOMA system. The m-LOMA client is capable of rendering photorealistic 3D city models with augmented location-based information in a ...

**Keywords:** 3D graphics, 3D maps, GIS, VRML, mobile computing, mobile guides, visibility

12 Research sessions: XML I: StatiX: making XML count



Juliana Freire, Jayant R. Haritsa, Maya Ramanath, Prasan Roy, Jérôme Siméon

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

**Publisher:** ACM Press

Full text available: [pdf\(1.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The availability of summary data for XML documents has many applications, from providing users with quick feedback about their queries, to cost-based storage design and query optimization. *StatiX* is a novel XML Schema-aware statistics framework that exploits the structure derived by regular expressions (which define elements in an XML Schema) to pinpoint places in the schema that are likely sources of *structural skew*. As we discuss below, this information can be used to build concisely ...

13 Data processing in the large: The microsoft data platform



David Campbell, Anil Nori

June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07**

**Publisher:** ACM Press

Full text available: [pdf\(662.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Advances in hardware, storage, devices, connectivity, and web technology are changing the way applications are designed, deployed, and managed. Applications are increasingly becoming data-centric and data is everywhere, and in all tiers (from the client to the cloud). Data across multiple tiers requires data access and management capabilities across these tiers.

The Microsoft Data Platform presents a vision for an end-to-end data platform that offers data services across all tiers.

**Keywords:** client, cloud, data platform, device, model-centric data and services,

synchronization, tiers

14 Languages: Deeply embedded XML communication: towards an interoperable and seamless world



Johannes Helander

September 2005 **Proceedings of the 5th ACM international conference on Embedded software EMSOFT '05**

**Publisher:** ACM Press

Full text available: [pdf\(151.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current consumer electronics devices do not interoperate and are hard to use. Devices use proprietary, device-specific and inflexible protocols. Resources across device classes, such as personal computers and home appliances cannot be taken advantage of. Even recent efforts to connect sensors into networks concentrate on new, ad-hoc protocols that segregate the low-cost devices into their own little world. If all classes of devices could speak the same language, they could talk directly to each other ...

**Keywords:** SOAP, XML, embedded systems, home networking, invisible computing, service oriented architecture

15 Publish-subscribe systems: Efficient xml data dissemination with piggybacking



Chee Yong Chan, Yuan Ni

June 2007 **Proceedings of the 2007 ACM SIGMOD international conference on Management of data SIGMOD '07**

**Publisher:** ACM Press

Full text available: [pdf\(302.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Content-based dissemination of XML data using the publish-subscribe paradigm is an effective means to deliver relevant data to interested data consumers. To meet the performance challenges of content-based filtering and routing, two key optimizations have been developed: the use of efficient indexes to speed up subscription filtering, and the use of effective aggregation algorithms to reduce the number of subscriptions. The effectiveness of both these techniques are, however, limited to local ...

**Keywords:** XML, XPath, annotation, data dissemination, piggybacking, pub/sub system

16 XML and text: XRANK: ranked keyword search over XML documents



Lin Guo, Feng Shao, Chavdar Botev, Jayavel Shanmugasundaram

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data SIGMOD '03**

**Publisher:** ACM Press

Full text available: [pdf\(265.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We consider the problem of efficiently producing ranked results for keyword search queries over hyperlinked XML documents. Evaluating keyword search queries over hierarchical XML documents, as opposed to (conceptually) flat HTML documents, introduces many new challenges. First, XML keyword search queries do not always return entire documents, but can return deeply nested XML elements that contain the desired keywords. Second, the nested structure of XML implies that the notion of ranking is not ...

17 Session 12: design and development methods II: Combining software transactional memory with a domain modeling language to simplify web application development

-  João Cachopo, António Rito-Silva  
July 2006 **Proceedings of the 6th international conference on Web engineering ICWE '06**

**Publisher:** ACM Press

Full text available:  [pdf\(189.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current best practices on web application development build on a plethora of design patterns, frameworks, and tools to support commontasks such as handling requests from the user and persisting domain entities: Even the simplest web applications need suchthings. Thus, web application developers are forced to learn anenormous amount of technology before they can start being productivein the development process.This paper proposes a simpler approach to the development of web applications, based on ...

**Keywords:** code generation, domain modeling, enterprise applications, persistence, transactions, web application architecture

- 18 [Charles W. Bachman interview: September 25-26, 2004; Tucson, Arizona](#) 

 Thomas Haigh  
January 2006 **ACM Oral History interviews**

**Publisher:** ACM Press


Full text available:  [pdf\(761.66 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Charles W. Bachman reviews his career. Born during 1924 in Kansas, Bachman attended high school in East Lansing, Michigan before joining the Army Anti Aircraft Artillery Corp, with which he spent two years in the Southwest Pacific Theater, during World War II. After his discharge from the military, Bachman earned a B.Sc. in Mechanical Engineering in 1948, followed immediately by an M.Sc. in the same discipline, from the University of Pennsylvania. On graduation, he went to work for Do ...

- 19 [On the design of the local variable cache in a hardware translation-based java virtual machine](#) 


 Hitoshi Oi  
June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools for embedded systems LCTES '05**, Volume 40 Issue 7


**Publisher:** ACM Press

Full text available:  [pdf\(118.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Hardware bytecode translation is a technique to improve the performance of the Java Virtual Machine (JVM), especially on the portable devices for which dynamic compilation is infeasible. However, since the translation is done on a single bytecode basis, it is likely to generate frequent memory accesses for local variables which can be a performance bottleneck.In this paper, we propose to add a small register file to the datapath of the hardware-translation based JVM and use it as a local variabl ...

**Keywords:** hardware-translation, java virtual machine, memory hierarchy

- 20 [2 - Regular Papers: A data structure for a sequence of string accesses in external memory](#) 

 Valentina Ciriani, Paolo Ferragina, Fabrizio Luccio, S. Muthukrishnan  
February 2007 **ACM Transactions on Algorithms (TALG)**, Volume 3 Issue 1

**Publisher:** ACM Press

Full text available:  [pdf\(231.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce a new paradigm for querying strings in external memory, suited to the execution of sequences of operations. Formally, given a dictionary of  $n$  strings  $S_1, \dots, S_n$ , we aim at supporting a search sequence for  $m$  not necessarily distinct strings  $T_1, T_2, \dots, T_m$ , as well as inserting and deleting individual strings. The dictionary is stored on disk, where each ac ...

**Keywords:** Skip list, caching, external-memory data structure, sequence of string searches and updates

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